PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

 3. [] Unity of invention is lacking (see Box No. III) 4. With regard to the title, [X] the text is approved as submitted by the applicant [] the text has been established by this Authority to read as follows: 5. With regard to the abstract, [X] the text is approved as submitted by the applicant [] the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority 6. With regard to the drawings, [X] as suggested by the applicant [X] as suggested by the applicant [] as selected by this Authority, because the applicant failed to suggest a figure [] as selected by this Authority, because this figure better characterizes the invention 	Applicant's or agent's file reference 913453-58PCT	FOR FURTHER ACTION	see Form PCT/ISA/220 as well as, where applicable, item 5 below
This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau. This international search report consists of a total of _5_ sheets. [X] It is also accompanied by a copy of each prior and document cited in this report. 1. Basis of the report a. With regard to the language, the international search was carried out on the basis of: [X] the international application in the language in which it was filed [] a translation of the international application into of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)) b. [X] With regard to any nucleotide and/or amino acid sequence disclosed in the international application, see Box No. I 1 3. [] Unity of invention is lacking (see Box No. II) 4. With regard to the title, [X] the text is approved as submitted by the applicant [] the text has been established by this Authority to read us follows: 5. With regard to the abstract, [X] the text is approved as submitted by the applicant [] the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box. No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority 6. With regard to the drawings, a. the figure of the drawings to be published with the abstract is Figure No. 1 [X] as suggested by the applicant [] as selected by this Authority, because the applicant failed to suggest a figure [] as selected by this Authority, because this figure better characterizes the invention	·		
Article 18. A copy is being transmitted to the International Bureau. This international search report consists of a total of <u>S</u> sheets. [X] It is also accompanied by a copy of each prior art document cited in this report. 1. Basis of the report a. With regard to the language, the international search was carried out on the basis of: [X] the international application in the language in which it was filed [] a translation of the international application into of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)) b. [X] With regard to any nucleotide and/or amino acid sequence disclosed in the international application, see Box No. I 2. [] Certain claims were found unsearchable (see Box No. II) 3. [] Unity of invention is lacking (see Box No. III) 4. With regard to the title. [X] the text is approved as submitted by the applicant [] the text has been established by this Authority to read as follows: 5. With regard to the abstract, [X] the text is approved as submitted by the applicant [] the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority 6. With regard to the drawings, a. the figure of the drawings to be published with the abstract is Figure No. [X] as suggested by this Authority, because the applicant failed to suggest a figure [] as selected by this Authority, because this figure better characterizes the invention		ICES ET AL	
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International application No. PCT/CA2005/000250

Bo	x No. I	Nucle	otide and/	or amino acid	sequence(s)) (Continua	ation of item 1.	b of the first sh	eet)	
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International application No. PCT/CA2005/000250

A. CLASSIFICATION OF SUBJECT MATTER IPC(7): C07H 21/00, C12Q 1/68, C07H 21/04

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) IPC(7): C07H 21/00, C12Q 1/68, C07H 21/04

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic database(s) consulted during the international search (name of database(s) and, where practicable, search terms used) Delphion, Pubmed, Biosis, Caplus and GeneSeq (searched sequences SEQ ID NOs 1 to 36)

Keywords: single nucleotide polymorphisms, primer, amplification, antigen, blood group, rare, genotype, multiplex, tag-array, platelet.

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 01/32702 A2 (DRK BLUTSPENDEDIENST BADEN-WUERTTEMBERG GMBH [DE/DE]) 10 May, 2001. (See PCR primers ga41, ga42 and re84 and pages 56 and 57)	1 to 5, 8 to 10, 12, 28 to 33, 40 to 42 and 45
X	WO 00/20634 A1 (NOVA MOLECULAR, INC. [CA/CA] Montreal, Quebec) 13 April, 2000. (See PCR primer Pla 2-1 for human GPIIIa allele)	1 to 5, 8 to 12 and 40
X	WO 02/068684 A2 (PYROSEQUENCING AB [SE/SE] Uppsala (SE) or in US Lunderberg, J. [SE/SE] Stockholm (SE)) 6 September, 2002. (See pages 4 to 6, Example 2)	1 to 14, 16 to 25, 27 and 29 to 45
x	WO 02/30950 A2 (GENAISSANCE PHARMACEUTICALS, INC. [US/US] New Haven CT) 18 April, 2002	29 to 32
Y	(See page 19, lines 19-29)	1 to 27, 34 to 40 and 42 to 45

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[X] I	Further documents are listed in the continuation of Box C.	[X] See patent family annex.
· * "A"	Special categories of cited documents: document defining the general state of the art which is not considered	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"E"·	to be of particular relevance earlier application or patent but published on or after the international filing date	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"L"	document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"O"	document referring to an oral disclosure, use, exhibition or other means	
"P"	document published prior to the international filing date but later than the priority date claimed	"&" document member of the same patent family
Date	of the actual completion of the international search	Date of mailing of the international search report
26 Ap	oril 2005 (26-04-2005)	15 June 2005 (15.06.2005)
	and mailing address of the ISA/CA dian Intellectual Property Office	Authorized officer
Place 50 Vie Gatine	du Portage I, C114 - 1st Floor, Box PCT ctoria Street eau, Quebec K1A 0C9 mile No.: 001(819)953-2476	Nathalie Chartrand (819) 994-2341

International application No. PCT/CA2005/000250

Category*	·			
	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.		
\mathbf{x}_{\cdot}	HIRSCHHORN, J. N. et al., "SBE-TAGS: An array-based method for	33 and 41		
Y	efficient single-nucleotide polymorphism genotyping", Proceedings of the National Academy of Sciences of USA, August 2000, Vol. 97, no. 22, pages 12164-12169. (Whole Document)	1 to 27, 34 to 40 and 42 to 45		
X Y	mini-sequencing", Blood. 16 November, 2000, Vol. 96, no. 11, Part 2, page 53b.	29 to 32 1 to 27, 34 to 40 and 42 to 45		
	(Whole Document)			
X	GASSNER, C. et al., "RHD/CE typing by polymerase chain reaction using sequence-specific primers", Transfusion. October 1997, Vol. 37, pages	28		
Y	1020-1026. (Whole Document)	1 to 27, 34 to 40 and 42 to 45		
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X, P	BORTOLIN, S., et al., "Analytical validation of the Tag-it high-throughput microsphere-based universal array genotyping platform: Application to the multiplex detection of a panel of thrombophilia-associated single-nucleotide polymorphisms", Clinical Chemistry. November 2004, Vol. 50, no. 11, pages 2028-2036. (Whole Document)	4, 9, 28 to 30, 32, 33 and 41		
X, P	INAGAKI, S., et al., "A new 39-plex analysis method for SNPs including 15 blood group loci", Forensic Science International. 11 August, 2004, Vol. 144, pages 45-57. (Whole Document)	4, 9, 12, 28 to 33, 40, 41 and 45		
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Information on patent family members

International application No. PCT/CA2005/000250

Patent Document Cited in Search Report	Publication Date	Patent Family Member(s)	Publication Date	
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